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(12) **Patent:**

Application Number:

(11) **CA 1115067**(21) **342992**

(54) ROTARY GRASS MOWING MACHINES

(54) TONDEUSES A LAMES TOURNANTES

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ABSTRACT:

ABSTRACT OF THE DISCLOSURE

A rotary grass mowing machine of the kind comprising a casing providing a chamber with a downwardly facing inlet and an elongate lateral passage extending from the chamber, and having a blade disposed within the chamber and rotatable so as to sweep a plane disposed generally parallel to the ground; in order to avoid danger from stones discharged with cuttings through the passage, an upright deflector suitably made of plastic, or a hinged metal sheet, is mounted within and extends across the passage in a lower part thereof; the deflector is located intermediate the chamber and the discharge opening of the passage and therefore a substantial distance from the plane swept by the blade so that stones struck during rotation of the blade are projected against the deflector and fall to ground whilst cuttings entrained in the air flow pass above the deflector and out of the discharge opening; a baffle extending inwardly from the deflector may also be provided to prevent stones passing above the deflector.

CLAIMS: [Show all claims](#)

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(72) Inventors (Country):**JUPP, ROBERT A., (DECEASED)** (U.K.)(73) Owners (Country):**RANSOMES SIMS & JEFFERIES LIMITED** (Not Available)(71) Applicants (Country):**GOUDREAU, GAGE & ASSOCIATES**(74) Agent:**Dec. 29, 1981**(45) Issued:**Jan. 3, 1980**(22) Filed:(41) Open to Public

Inspection:(52) Canadian Class (CPC): **56/57**(51) International Class (IPC): **A01D 35/262**(1980.01)Patent Cooperation Treaty (PCT): **No**(30) Application priority data: **None**Availability of licence: **N/A**Language of filing: **English**

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This invention relates to rotary grass mowing machines and particularly to rotary grass mowing machines comprising a casing, having a top and a depending skirt which together provide a chamber with a downwardly facing inlet and a lateral discharge opening for cuttings, a rotatable blade disposed within the chamber of the casing and a driving shaft extending through the top of the casing and on which the blade is mounted so as to sweep a plane which in operation is disposed generally parallel to the ground and to cause a flow of air through the inlet transversely with respect to said plane. Machines of the kind set forth may be provided with more than one rotatable blade within the casing and may also be provided in the form of a pedestrian controlled machine, or as a ride-on machine which is adapted to be mounted on a self-propelled vehicle, when a number of mowing machines may be arranged to afford an increased width of swath. With the ride-on type of machine, the rotary grass mowing machine may be one of a number of alternative pieces of equipment for use with a basic tractor unit. Alternatively, the basic tractor unit may be fitted up with one or more rotary heads as a specialised machine for grass cutting only.

Inherent in many machines of the above kind is the danger of stones or other heavy objects hit by the blade being projected at high speed through the lateral discharge opening. A variety of ways of reducing this danger have been proposed. For example, in some machines, stones entering the lateral passage with cuttings are directed up to the roof, and they are there given a downward component of momentum and exit from the passage to fall to the ground quite close to the machine so that there is no danger of stones flying upwardly to hit an operator or bystander but a person standing close to the machine is still at risk. Alternatively, a shield of some kind may be provided at the exit of the discharge

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